

## Project Planning Phase

### Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	28 October 2023
Team ID	Team-592538
Project Name	AUTOMATED PREDICTION MODEL FOR DIABETIC RETINOPATHY USING CNN
Maximum Marks	8 Marks

#### Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1,2	Data Collection and Preparation	USN-1	As a Data Scientist, I want to access reliable historical Bitcoin price data, so I can analyze and predict trends effectively.	1	High	Varun Kumar, Sai Krishna
Sprint-3,4	Model Development and Training	USN-2	As a Machine Learning Engineer, I want to create a baseline Prophet model for Bitcoin price prediction, so I can establish a foundation for further optimization.	2	High	Sai Krishna, Lokesh
Sprint-5,6	Evaluation and Validation	USN-3	As a Product Owner, I want to visualize model predictions against actual Bitcoin prices, so I can interpret the results and make informed decisions.	3	High	Varun, Sai Krishna, Lokesh
Sprint-7,8	Front-End Development	USN-4	As a Front-End Developer, I want to implement interactive charts on the user interface, so	5	High	Varun, Lokesh

			users can visualize both predicted and actual Bitcoin prices dynamically.			
Sprint-9,10	Cloud Infrastructure and Deployment	USN-5	As a DevOps Engineer, I want to select an appropriate cloud service provider and set up infrastructure, so the application and model can be hosted securely and efficiently.	6	High	Lokesh
Sprint-11,12	Performance Optimization	USN-6	As a QA Engineer, I want to define comprehensive test objectives and scope, so I can ensure the application functions as intended and meets quality standards.	3	Medium	Varun
Sprint-13	Evaluation & Testing	USN-7	As a quality assurance specialist, I want to test the model's performance rigorously and evaluate its effectiveness for Bitcoin price prediction.	2	High	Sai Krishna

**Project Tracker, Velocity & Burndown Chart: (4 Marks)**

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1,2	8	1 Day	28 Oct 2023	28 Oct 2023	9	28 Oct 2023
Sprint-3,4	8	1 Day	29 Oct 2023	29 Oct 2023	8	29 Oct 2023
Sprint-5,6	8	3 Days	30 Oct 2023	01 Nov 2023	10	01 Nov 2023
Sprint-7,8,9	12	3 Days	02 Nov 2023	04 Nov 2023	11	04 Nov 2023

Sprint-10,11,12	12	2 Days	05 Nov 2023	06 Nov 2023	5	06 Nov 2023
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### Velocity:

The team velocity of the 10-day sprint duration is:

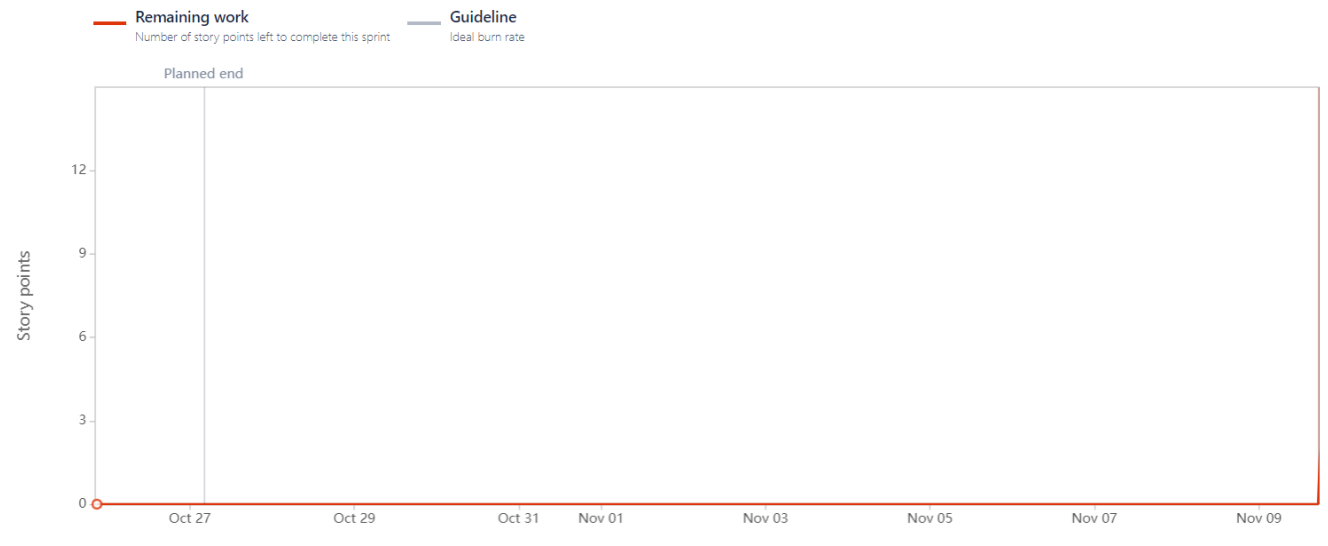
$$Velocity = (9+8+10+11+5) / 5 = 43 / 5 = 8.6$$

$$Average Velocity = Sprint\ duration / velocity = 10 / 8.6 = 1.16$$

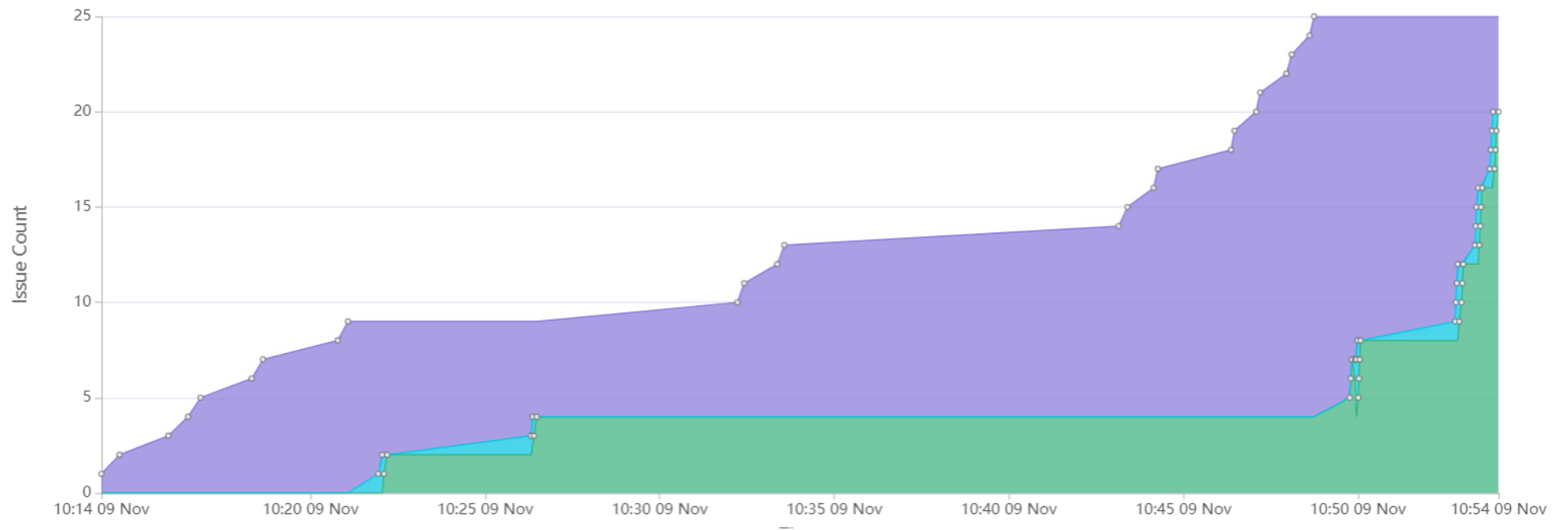
**Burndown Chart:** A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

**Date** - October 25th, 2023 - October 27th, 2023

**Sprint goal** - Comprehensive Testing



✓ To Do    ✓ In Progress    ✓ Done



## Board:

The screenshot shows the Jira Software interface for a project named "AN AUTOMATED PREDICTION MODEL FOR DIABETIC RETINOPATHY USING CNN". The main view is the "Backlog", which is organized into two sprints and a backlog section.

**Left Sidebar:**

- Project name: AN AUTOMATED PREDI... Software project
- Plan: You're on the Free plan (UPGRADE button)
- Navigation: PLANNING (Timeline, Backlog, Board, Reports, Issues), DEVELOPMENT (Code, Documents, Add shortcut)
- Footer: Upcoming Earnings, You're in a team-managed project (Learn more)

**Main Content Area:**

Projects / AN AUTOMATED PREDICTION MODEL FOR DIABETIC RETINOPATHY USING CNN

**Backlog**

Search: [ ] Filters: [Epic 1] Clear filters [Import work] [Insights] [View settings]

**Sprint 1: APMFDRUC Sprint 1** 25 Oct – 27 Oct (2 of 10 issues visible) 0 0 5 Complete sprint

Comprehensive Testing

- APMFDRUC-6 Gather a diverse dataset of retinal images, including a range of D... DATA PREPAR... DONE 3
- APMFDRUC-7 Annotate the dataset with the corresponding Diabetic Retinopat... DATA PREPAR... DONE 2

+ Create issue

**Sprint 2: APMFDRUC Sprint 2** 25 Oct – 27 Oct (2 of 10 issues visible) 0 0 5 Complete sprint

Documentation and Compliance

- APMFDRUC-8 Preprocess the retinal images, including resizing them to a unifor... DATA PREPAR... DONE 2
- APMFDRUC-9 Implement data augmentation techniques to increase the datase... DATA PREPAR... DONE 3

+ Create issue

**Backlog** (0 issues) 0 0 0 Create sprint

**Bottom Bar:**

Windows taskbar with search, task view, and various application icons. System tray shows date: 09-11-2023, time: 17:27, and language: ENG IN.











Inbox (88)Student DashboardAN AUTOMATED PREDICTION MODEL FOR DIABETIC RETINOPATHY USING CNNProject RepositoryGoogle ColabML ProjectChatGPTDiabetic Disease Predictionquick assistjira software

saiiii.atlassian.net/jira/software/projects/APMFDRUC/boards/2/timeline?hideWarnings=true

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SKB

Status categoryEpic

	OCT	NOV	NOV	
	21222324252627282930311234567891011121314			
Sprints		APMFDRUC Sprints		
> APMFDRUC-1 Data Preparation and Ac...				
> APMFDRUC-2 Model Development and ...				
> APMFDRUC-3 Model Interpretability an...				
> APMFDRUC-4 Deployment and Integrat...				
> APMFDRUC-5 Testing, Documentation, ...				
+ Create Epic				

TodayWeeksMonthsQuarters

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>  
<https://www.atlassian.com/agile/tutorials/burndown-charts>

**Reference:**

<https://www.atlassian.com/agile/project-management>  
<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>  
<https://www.atlassian.com/agile/tutorials/epics>  
<https://www.atlassian.com/agile/tutorials/sprints>  
<https://www.atlassian.com/agile/project-management/estimation>  
<https://www.atlassian.com/agile/tutorials/burndown-charts>